

CLAIMS

1. Silk-screen printing machine in simplified register comprising a bearer structure (12) on which a silk-screen printing frame is arranged, elements in register  
5 (18) of the position of a sheet element to be printed (15) in a supply plane (14), means (34) for detecting the position of said sheet in register (15) and at least one pincer-carrying rod (16) suitable for pulling said sheet (15) on a printing plane (13), characterised  
10 in that it is equipped with a group for registering said sheet (15), where said group is arranged upstream of said pincer-carrying rod (16) and comprises a transversal plate (17) for supporting the sheet and able to translate towards said pincer-carrying rod  
15 (16), a plurality of said mobile elements in register (18) suitable for interacting downstream of said plate (17) with said supply plane (14) of the sheet and a plurality of presser elements (19) arranged in a position above said support plate (17) and mobile  
20 towards it to engage said sheet (15), said support plate (17) and said presser elements (19) being mounted integral with a slide (20) mobile in the longitudinal direction towards said pincer-carrying rod (16).

2. Machine according to claim 1, characterised in that  
25 a front edge of said transversal support plate (17) is equipped with protruding elements (25) which are

elastically retractable when pressed into abutment against said pincer-carrying rod (16).

3. Machine according to claim 1, characterised in that said slide (20) is commanded by an oscillating lever  
5 mechanism (22) and is equipped with a stroke which can be predetermined and variable.

4. Machine according to claim 1, characterised in that said elements in register (18) each consist of a foil (32) protruding from a base body (33), said base (33)  
10 being slidably inserted in a transversal guide (31) positioned below the supply plane (14) and commanded by an actuator device (35) which determines its engagement and disengagement from said plane (14).

5. Machine according to claim 4, characterised in that  
15 said actuator device (35) is a piston (37) hinged at ends respectively below to a fixed point of the structure (12) and above to a lever (38), said lever (38) being hinged at an end thereof to a fixed fulcrum (36) and carrying, at the opposite end, said  
20 transversal guide (31).

6. Machine according to claim 4, characterised in that said foils (32) are retractable into said base (33).

7. Machine according to claim 4, characterised in that said means (34) for detecting the presence of the sheet  
25 in register are housed integrally in said base body (33), in which said detection means (34) transfer an

authorisation signal to the command mechanism (22) of said slide (20).

8. Machine according to claim 1, characterised in that said presser elements (19) are mounted at an upper  
5 transversal rod (27) oscillating about a transversal axis thereof.

9. Machine according to claim 1, characterised in that said presser elements (19) consist of inclined elastic foils (28) on which means for adjusting the pressure  
10 (26) act.